West Virginia Department of Environmental Protection Division of Air Quality

Joe Manchin, III Governor Randy C. Huffman Cabinet Secretary



Permit

to

Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:

Alliant Techsystems, Inc. ATK Missile Subsystems & Components Division R30-05700011-2009 (Part 3 of 3)

> John A. Benedict Director

Issued: August 10, 2009 • Effective: August 24, 2009 Expiration: August 10, 2014 • Renewal Application Due: February 10, 2014 Permit Number: **R30-05700011-2009** (Part 3 of 3)

Permittee: Alliant Techsystems, Inc.

Facility Name: **ATK Missile Subsystems & Components Division**Permittee Mailing Address: **210 State Route 956, Rocket Center, WV 26726-3548**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location: Rocket Center, Mineral County, West Virginia

Facility Mailing Address: 210 State Route 956, Rocket Center, WV 26726-3548

Telephone Number: (304) 726 - 5506 Type of Business Entity: Corporation

Facility Description: fabrication of both steel and composite structure rocket motor and

warhead cases, production of propellants and explosives which are loaded

into above cases and all associated case preparation and testing for motors

SIC Codes: Primary - 3764, Secondary – 3089

UTM Coordinates: 686.47 km Easting • 4381.25 km Northing • Zone 17

Permit Writer: Natalya Chertkovsky-Veselova

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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ATTACHMENT 1 – Certification of Data Accuracy (reverse side of APPENDIX A of the Permit R13-2023B and Attachment B to the Permit R13-1771B)

ATTACHMENT 2 - HAP list (from Permit R13-1771B)

ATTACHMENT 3 – G60-C020

ATTACHMENT 4 – Class II General permit G60-C

1.0 Emission Units and Active R13, R14, and R19 Permits

1.1. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
		Laser Products Fabrication - C	Group 009		
9-1S	VI	Inert Gas Welding Machine-8	1997	Variable	
9-2S	9-1E	Exhaust Hood-8	Early 90s	Variable	
9-4S	VI	Small Electric Oven-8	Early 90s	Variable	
9-5S	VI	Small Electric Oven-8	Early 90s	Variable	
9-6S	VI	Small Electric Oven-8	Early 90s	Variable	
9-7S	VI	Small Electric Oven-8	Early 90s	Variable	
9-8S	9-2E	Exhaust Hood-8	Early 90s	Variable	
9-9S	VI	Inert Gas Welding Machine-432	1997	Variable	
9-10S	9-3E	Exhaust Hood-432	1997	Variable	
9-11S	VI	Zero Grit Blaster-432	1997	Variable	9-1C
9-12S	VI	Small Electric Oven-432	1997	Variable	
9-13S	VI	Small Electric Oven-432	1997	Variable	
9-14S	VI	Small Electric Oven-432	1997	Variable	
9-15S	9-4E	Exhaust Hood-432	1997	Variable	
9-16S	VI	Helium Leak Detector-432	1997	Variable	
9-17S	VI	Vacuum Oven-432	1997	Variable	
9-18S	VI	Vacuum Oven-432	1997	Variable	
9-19S	9-5E	Laser Etch Workstation-432	1997	Variable	
9-20S	9-6E	Aqueous Parts Washer-432	1997	Variable	
9-21S	VI	Conditioning Chamber-432	1997	Variable	
9-22S	VI	Conditioning Chamber-432	1997	Variable	
9-23S	9-7E	Grenade Fuze Testing Chamber – 361	2006	Variable	
9-24S	NDV	Grenade Fuze Marking Printer - 361	2006	Variable	
9-25S	9-8E	Electronic Fuze – SMT Heller Oven – 432A	2005	Variable	
9-26S	9-9E	Electronic Fuze – MOFA Paint Hood – 432A	2006	Variable	
9-27S	9-10E	Electronic Fuze – M74 Cleaning Station – 432A	2007	9 gal	
9-28S	9-11E	Electronic Fuze – ETFM Cleaning Station	2008	100 gal	

Boilers	_	Group	00T.
Duncis	_	OLUUD	VVL

L-1S	L-1E	No. 17 Coal-Fired Boiler-344	1988	51 mmBTU/hr	L-1C
L-1S L-2S	L-1E L-2E	No. 17 Coal-Filed Boiler-344 No. 15 Oil-Fired Boiler-344	1988	78 mmBTU/hr	L-IC
		No. 16 Oil-Fired Boiler-344			
L-3S	L-3E		1971	78 mmBTU/hr	
L-5S	L 4E	Diesel Powered Emergency Generator 344	2000	600 hp	
L-6S	FUG**	Entry Hopper-344	1988		Partially enclosed
L-7S	FUG	Bucket Elevator-344	1988		Full Enclosure
L-8S	FUG	Storage Silo-344	1988		Full Enclosure
L-9S	FUG	Belt Conveyor-344	1988		Full Enclosure
L-10S	FUG	Boiler Feed Hopper-344	1988		Full Enclosure
L-4S	VI	Nalco 1741 Boiler Treatment Feed Tank-344	2000	400 gal	
L-15S	VI	Nalco 356 Corrosion Inhibitor Feed Tank-344	2000	200 gal	
L-16S	VI	Nalco 1720 Oxygen Scavenger Feed Tank-344	2000	200 gal	
L-17S	VI	Acid Mix Tank-344	2000	50 gal	
L-18S	VI	Sodium Metabisulfite Solution Tank- 344	2000	50 gal	
L-19S	VI	Antiscalant Solution Tank-344	2000	50 gal	
L-20S	VI	Sodium Hydroxide Solution Tank- 344	2000	50 gal	
L-11S	L-5E	No. 1 Oil-Fired Boiler-8501 CB-600-2238-150ST	1996/2006	9.92 mmBTU/hr	
L-12S	L-6E	No. 2 Oil-Fired Boiler-8501 CB-600-238-150ST	2005/2006	9.96 mmBTU/hr	
L 14S	L.7E	Diesel Powered Emergency Generator 8501		90 hp	
L-21S	VI	Nalco 1720 Oxygen Scavenger Feed Tank-8501	2001	100 gal	
L-22S	VI	Boiler Feedwater Chemical Tank- 8501	2001	100 gal	
		Emergency Engines			
<u>EG-1</u>	<u>EG-1</u>	Onan DGEA (Portable) (Bldg 372)	<u>1998</u>	167.6 bhp / 1800 rpm	
<u>EG-2</u>	<u>EG-2</u>	Cummins-Onan 400 DFEB (Bldg (344)	2000	600 bhp / 1800 rpm	
<u>EG-3</u>	<u>EG-3</u>	Kohler (Bldg 415)	<u>1999</u>	241.4 bhp / 1800 rpm	
<u>EG-4</u>	<u>EG-4</u>	Kohler 300ROEZD71 (Bldg 440)	<u>1995</u>	490 bhp / 1800 rpm	
<u>EG-5</u>	<u>EG-5</u>	Kohler 300ROEZD72 (Bldg 440)	<u>1998</u>	490 bhp / 1800 rpm	
<u>EG-6</u>	<u>EG-6</u>	Kohler 800REOZM (Bldg 449)	2004	1207 bhp / 1800 rpm	

EG-7	<u>EG-7</u>	Kohler 500REOZVB-IC2C2 Tier 2	2008	757 bhp /	
<u>EU-7</u>	<u>EG-7</u>	(Bldg 440)	2008	1800 rpm	
<u>EG-8</u>	<u>EG-8</u>	Stamford D5847/1(Bldg 8501)	Before	90 bhp / 1800	
200	<u>20 0</u>	Stanford Bootty (Blag 6561)	1990	rpm	
<u>EG-9</u>	EG-9	MTU 1250RXC5DT2 Tier 2 (Bldg	2010	1675.25 bhp /	
		449)		1800 rpm	
<u>EG-10</u>	<u>EG-10</u>	Caterpillar D100-4 Tier 2 (Bldg 385)	November	<u>157.5 bhp /</u>	
			<u>2006</u>	<u>1800 rpm</u>	
		Storage Tanks - Group 0	0M		
M-2S	M-2E	Fuel Oil Storage Tank-344	1971	50,000 gal	
M-3S	M-3E	Fuel Oil Storage Tank-344	1971	50,000 gal	
M-5S	M-5E	Fuel Oil Aboveground Storage	2000	550 gal	
		Tank-344			
M-6S	M-6E	Propane Storage Tank-256	1993	1,000 gal	
M-7S	M-7E	Propane Storage Tank-256	1993	1,000 gal	
M-8S	M-8E	Propane Storage Tank-256	1993	1,000 gal	
M-28S	M-28E	Propane Storage Tank-256	1993	1,000 gal	
M-29S	M-29E	Propane Storage Tank-256	1993	1,000 gal	
M-30S	M-30E	Propane Storage Tank-256	1993	1,000 gal	
M-9S	M-9E	Propane Storage Tank-412	1997	1,000 gal	
M-10S	M-10E	Propane Storage Tank-412	1997	1,000 gal	
M-31S	M-31E	Propane Storage Tank-412	1997	1,000 gal	
M-11S	M-11E	Propane Storage Tank-438	1996	18,000 gal	
M-32S	M-32E	Propane Storage Tank-420	1999	1,000 gal	
M-33S	M-33E	Propane Storage Tank-420	1999	1,000 gal	
M-34S	M-34E	Propane Storage Tank-420	1999	1,000 gal	
M-35S	M-35E	Propane Storage Tank-420	1999	1,000 gal	
M-12S	M-12E	Gasoline Storage Tank-7	1993	6,000 gal	
M-13S	M-13E	Diesel Storage Tank-7	1993	4,000 gal	
M-20S	M-20E	Fuel Oil Storage Tank-8501	1996	15,000 gal	
M-21S	M-21E	Fuel Oil Storage Tank-8501	1996	15,000 gal	
M-22S	M-22E	Actrel Storage Tank-2014	1995	1,800 gal	
M-23S	M-23E	Actrel Storage Tank-2014	1995	1,500 gal	
M-24S	M-24E	Solvent Storage Tank-8203	1998	500 gal	
M-25S	M-25E	Solvent Storage Tank-8203	1998	500 gal	
M-26S	M-26E	Solvent Storage Tank-8203	1998	500 gal	
M-27S	M-27E	Diesel Fuel Storage Tank-344		275 gal	
		Water Treatment - Group	00N		
N-1S	FUG	Reactor Basin-442	1996	100,000 gal	
N-2S	FUG	Reactor Basin-442	1996	100,000 gal	
N-4S	CS	Explosive Wastewater Treatment	1994	14,000 gal/day	Full Enclosure
		System-383			Tuli Eliciosure
N-5S	FUG	Facility Water Treatment System- 535	1996	504,000 gal/day	
N-6S	FUG	Aeration Basin-8560	1968	2,160 gal	
					

Explosive Solid Waste Treatment - Group 00O

O-1S	FUG	Burning pans BG	2005	Variable	
0-15	1.00	Burning pans bu	2003	v arrabic	

Research Complex - Group 00P

P-20S	P-12E	Large (100 pound) Dessicator Sparge Line-21	1992	100 lb	
P-21S	P-13E	Large (100 pound) Dessicator Sparge Line-21	1992	100 lb	
P-30S	OS	Sweco Grinder	NA		
P-28S	VI	Scrap Storage Drum-289	1996	55 gallon	
P-29S	VI	Scrap Storage Drum-289	1996	55 gallon	
P-31S	P-21E	5-gal Mixer-290	1963	5 gallon	
P-32S	P-22E	Parts Cleaning Station-290	1963	Variable	
P-33S	P-23E	Exhaust hood (Rm.109)-394	1996	Variable	
P-34S	P-23E	Exhaust hood (Rm.110)- 394	1996	Variable	
P-35S	P-23E	Fume extractor-394	1996	Variable	
P-36S	P-23E	Fume extractor-394	1996	Variable	
P-37S	P-23E	Fume extractor-394	1996	Variable	
P-38S	P-23E	Fume extractor-394	1996	Variable	
P-39S	P-23E	Fume extractor-394	1996	Variable	
P-40S	P-24E	Neslab Low Temp Bath Circulator for Tensile Testing-394	1996	Variable	
P-41S	P-25E	Exhaust hood-405-108	1996	Variable	
P-42S	P-25E	Exhaust hood-405-110	1996	Variable	
P-43S	P-25E	Exhaust hood-405-110	1996	Variable	
P-44S	P-25E	Exhaust hood-405-112	1996	Variable	
P-45S	P-25E	Exhaust hood-405-114	1996	Variable	
P-46S	P-25E	Exhaust hood-405-115	1996	Variable	
P-47S	P-25E	Exhaust hood-405-117	1996	Variable	
P-48S	P-25E	Exhaust hood-405-119	1996	Variable	
P-49S	P-25E	Exhaust hood-405-119	1996	Variable	
P-50S	P-25E	Exhaust hood-405-124	1996	Variable	
P-51S	P-25E	Exhaust hood-405-124	1996	Variable	
P-52S	P-25E	Exhaust hood-405-124	1996	Variable	
P-53S	P-25E	Exhaust hood-405-125	1996	Variable	
P-54S	P-25E	Exhaust hood-405-125	1996	Variable	
P-56S	P-25E	Exhaust hood-405-129	1996	Variable	
P-57S	P-25E	Exhaust hood-405-131	1996	Variable	
P-58S	P-25E	Exhaust hood-405-133	1996	Variable	
P-59S	P-25E	Exhaust hood-405-134	1996	Variable	
P-60S	P-25E	Exhaust hood-405-135	1996	Variable	
P-61S	P-25E	Exhaust hood-405-135	1996	Variable	

P-62S	P-25E	Exhaust hood-405-138	1996	Variable	
P-63S	P-25E	Exhaust hood-405-138	1996	Variable	
P-64S	P-26E	Exhaust hood-405-119	1996	Variable	
P-65S	P-27E	Exhaust hood-405-135	1996	Variable	
P-66S	P-27E	Exhaust hood-405-135	1996	Variable	
P-68S	P-28E	Exhaust hood-405-138	1996	Variable	
P-68S	P-28E	Exhaust hood-405-138	1996	Variable	
P-69S	P-29E	Fume Extractors for Atomic	1996	Variable	
		Absorption Test Equipment-405-110			
P-70S	P-29E	Fume Extractors for Atomic	1996	Variable	
		Absorption Test Equipment-405-110			
P-71S	P-25E	Fume Extractors for Gas	1996	Variable	
		Chromatography-405-129			
P-72S	P-25E	Fume Extractors for Gas	1996	Variable	
		Chromatography-405-129			
P-73S	P-25E	Fume Extractors for Gas	1996	Variable	
		Chromatography-405-129	1001		
P-74S	P-30E	Electric oven-405-113	1996	Variable	
P-75S	P-30E	Electric oven-405-113	1996	Variable	
P-76S	P-30E	Electric oven-405-113	1996	Variable	
P-77S	P-30E	Electric oven-405-113	1996	Variable	
P-78S	P-30E	Electric oven-405-113	1996	Variable	
P-79S	P-30E	Electric oven-405-113	1996	Variable	
P-80S	P-25E	Parr Bomb Exhaust-405-136	1996	Variable	
P-81S	P-31E	Exhaust hood-406-101	1996	Variable	
P-82S	P-31E	Exhaust hood-406-103	1996	Variable	
P-83S	P-31E	Exhaust hood-406-106	1996	Variable	
P-84S	P-31E	Exhaust hood-406-106	1996	Variable	
P-85S	P-31E	Exhaust hood-406-107	1996	Variable	P-4C
P-86S	P-31E	Benchtop Slotted Exhaust-406-106	1996	Variable	
P-87S	P-31E	Walk-in Electric Oven-406-107	1996	Variable	
P-88S	P-31E	Despatch Electric Oven-406-109	1996	Variable	
P-89S	P-31E	Young Brothers Electric Oven-406- 109	1996	Variable	
P-90S	P-31E	Young Brothers Electric Oven-406- 109	1996	Variable	
P-91S	P-31E	3 Roll Mill-406-113	1996	Variable	
P-92S	P-31E	2 Roll Mill-406-113	1996	Variable	
P-93S	VI	Dake Press-406-113	1996	Variable	
P-94S	VI	Dake Press-406-113	1996	Variable	
P-95S	VI	Dake Press-406-113	1996	Variable	
P-96S	VI	Empire Grit Blaster-406-110	1996		P-5C
P-97S	FUG	Sensitivity Test Pits-500	Pre-70s	Variable	
P-94S	P-33E	Exhaust hood-404-102	1997	Variable	
P-95S	P-33E	Exhaust hood-404-104	1997	Variable	
P-96S	P-33E	Exhaust hood-404-106	1997	Variable	
P-97S	P-33E	Exhaust hood-404-108	1997	Variable	

	-		T		
P-99S	P-33E	Exhaust hood-404-105	1997	Variable	
P-100S	P-33E	Exhaust hood-404-107	1997	Variable	
P-101	P-33E	Exhaust hood-404-111	1997	Variable	
P-102S	P-33E	Exhaust hood-404-111	1997	Variable	
P-103S	P-33E	Exhaust hood-404-111	1997	Variable	
P-104S	P-34E	Fume extractor-404-114	2004	Variable	P-7C
P-108S	P-34E	Fume extractor-404-112	2004	Variable	P-7C
P-105S	P-35E	Chemical fume hood-403-101	1998	Variable	
P-106S	P-36E	Slotted exhaust-403-101	1998	Variable	P-8C
P-107S	P-36E	Slotted exhaust-403-101	1998	Variable	P-8C
P-109S	P-37E	5 gallon mixer-396	2001	5 gallons	
P-110S	P-38E	Exhaust hood-396	2001	Variable	
P-111S	P-39E	Fume extractor-396	2001	Variable	
P-115S	P-43E	Fume hood-400-121	1999	Variable	
P-116S	P-44E	Fume extractor-400-116	1999	Variable	
P-117S	P-45E	Micro mixer-400-116	1999	Variable	
P-118S	P-46E	One pound Sigma mixer-400-116	1999	1 lb	
P-119S	P-46E	One pound Sigma mixer-400-110	1999	1 lb	
P-120S	P-47E	One pound Sigma mixer-400-106	1999	1 lb	
P-121S	P-48E	Fume hood-400-117	1999	Variable	
P-122S	P-49E	Fume extractor-401	1999	Variable	
P-123S	P-50E	Fume hood-401	1999	Variable	
P-124S	P-51E	Ten pound mixer-401	1999	10 lb	
P-116S	P-44E	Fume extractor-400-116	1999	Variable	
		Static Firing / X-Range - Gr			
Q-1S	FUG	Static Test Firing Bay-77	1959	Variable	
Q-2S	FUG	Static Test Firing Bay-193	1959	Variable	
Q-3S	FUG	Static Test Firing Bay-194	1959/ Summer 2002	Variable	
Q-4S	FUG	Static Test Firing Bay-242	1961	Variable	
		Hazardous Waste Storage - G	roup 00R		
N/A	FUG	Hazardous Waste Storage Pad	1989	320 drums	N/A
		Photographic Development - C	Group 00S		
S-1S	VI	3M-2300 Processor Camera-8	1995	Variable	
S-2S	VI	Photo Developer Machine	1995	Variable	
S-3S	VI	Kodamatic 42S Processor	1995	Variable	
S-4S	VI	Agfa-Geraert Developer	1995	Variable	
		TPEG Polymer Manufacture -	Group 00T		
T-1S	T-1E or T-2E	Reactor vessel	1999	6500 lb/batch	T-1C

T-2S	T-1E	Reactor distillate receiver	1999	7 GPM	T-1C
T-3S	T-1E or T-3E	Separator	1999	5000 lb/batch	T-1C
T-4S	T-1E	Wiped film evaporator	1999	120 GPM	T-1C
T-5S	T-1E or T-4E	Waste acid water tank	2001	1000	T-1C
T-6S	T-5E	Tetrahydrofuran drum filling	1999	6 GPM	

Groundwater Pump & Treatment- Group 00U

U-1S	CS	Peroxide contact tank-424	1999	300 gpm	Closed
U-2S	CS	Pressure filters-424	1999	5 gpm/SF	Closed
U-3S	CS	UV/Oxidation unit-424	1999	220 gpm	Closed
U-4S	U-1E	Air stripper-424	1999	Variable	
U-5S	CS	Carbon filter-424	1999	300 gpm	Closed
U-6S	CS	Peroxide storage tote-424	1999	100 gal	Closed
U-7S	CS	Peroxide storage tote-424	1999	100 gal	Closed
U-8S	CS	Peroxide storage tote-424	1999	100 gal	Closed

MAC Warhead Aluminum Preparation – Group 00X

X-1S	X-1E	Exhaust Hood for Acetone/Viton Mixing	2005	55 gal	
X-2S	X-2E, X-3E	Ross Mixer for Viton/Aluminum coating	2005	250 lb	X-1C, X-2C
X-3S	X-3E	Sweco Shaker	2005	Variable	X-2C
X-4S	X-3E	Natoli Pelletizer	2005	20 lb	X-2C
X-5S	X-4E	Grieve Pre-Heat Oven	2005	Variable	
X-6S	X-3E	JH Day 200 Ton Press	2005	Variable	X-2C

Control Devices

Control Device ID	Emission Point ID	Control Device Description	Year Installed / Modified	Design Capacity	Comments
9-1C	VI	Cyclone dust collector grit blaster	1997	99.9% (PM)	
L-1C	L-1E	Baghouse	1988	93.75 (PM)	
P-4C	P-31E	Fabric filter for exhaust hood	1996	90-95% (PM)	
P-5C	VI	Cyclone dust collector grit blaster	1999	99.9% (PM)	
P-7C	P-34E	Acid neutralization system	2001	99.9% (HCl)	
P-8C	P-36E	HEPA filter for slotted hood	1996	99.9% (PM)	
T-1C	T-1E, T-2E, T-3E, T-4E	Packed bed scrubber	1999	99% (THF)	
X-1C	X-2E, X-3E	Information pending	2005	-	
X-2C	X-2E, X-3E	Information pending	2005	-	

^{*} VI stands for "Vents inside of building"

^{**} FUG stands for "Fugitives"

1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-0974A	05/23/2001
R13-1771B	04/27/2004
R13-2023B	04/14/2009
R13-2301A	07/13/2001
R13-2606A	01/28/2006
<u>G60-C020</u>	09/30/2010

2.0 General Conditions

2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the <u>monthly</u> data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NO_x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance
CEM	Continuous Emission Monitor		Standards
CES	Certified Emission Statement	PM	Particulate Matter
C.F.R. or CFR	Code of Federal Regulations	PM_{10}	Particulate Matter less than
CO	Carbon Monoxide	10	10μm in diameter
C.S.R. or CSR	Codes of State Rules	pph	Pounds per Hour
DAQ	Division of Air Quality	ppm	Parts per Million
DEP	Department of Environmental	PSD	Prevention of Significant
	Protection		Deterioration
FOIA	Freedom of Information Act	psi	Pounds per Square Inch
HAP	Hazardous Air Pollutant	SIC	Standard Industrial
HON	Hazardous Organic NESHAP		Classification
HP	Horsepower	SIP	State Implementation Plan
lbs/hr or lb/hr	Pounds per Hour	SO_2	Sulfur Dioxide
LDAR	Leak Detection and Repair	TAP	Toxic Air Pollutant
m	Thousand	TPY	Tons per Year
MACT	Maximum Achievable Control	TRS	Total Reduced Sulfur
	Technology	TSP	Total Suspended Particulate
mm	Million	USEPA	United States
mmBtu/hr	Million British Thermal Units per		Environmental Protection
	Hour		Agency
mmft³/hr <i>or</i>	Million Cubic Feet Burned per	UTM	Universal Transverse
mmcf/hr	Hour		Mercator
NA or N/A	Not Applicable	VEE	Visual Emissions
NAAQS	National Ambient Air Quality		Evaluation
	Standards	VOC	Volatile Organic
NESHAPS	National Emissions Standards for		Compounds
	Hazardous Air Pollutants		

2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.

[45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.

[45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.

[45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.

[45CSR§30-6.3.c.]

2.4. Permit Actions

2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
 - a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
 - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
 - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.

[45CSR§30-6.4.]

2.7. Minor Permit Modifications

2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.

[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.

[45CSR§30-6.5.b.]

2.9. Emissions Trading

2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.

[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
 - a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
 - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
 - c. The change shall not qualify for the permit shield.
 - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
 - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9.]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

[45CSR§30-5.8]

2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

[45CSR§30-5.8.a.]

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:
 - a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
 - b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements. [45CSR\$30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
 - a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
 - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
 - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
 - At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's
 premises where a source is located or emissions related activity is conducted, or where records must be
 kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
 - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
 - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
 - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met. [45CSR§30-5.7.b.]
- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement. [45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically

identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

[45CSR§30-5.6.a.]

- 2.21.2. Nothing in this permit shall alter or affect the following:
 - a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
 - b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
 - c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.
[45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
 - a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
 - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA. [45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR\\$6-3.1.

[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.

[45CSR§6-3.2.]

- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health Environmental Health require a copy of this notice to be sent to them. **[40 C.F.R. §61.145(b) and 45CSR15 45CSR34]**
- 3.1.4. Odor. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
 [45CSR\$4-3.1 and 45CSR13, R13-2606, 3.1.4. and 4.1.10. State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.

 [45CSR\$11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

[40 C.F.R. 68]

3.1.9. The pertinent sections of 45CSR7 applicable to this facility include, but are not limited to, the following:

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

[45CSR§7-3.1.]

The provisions of 45CSR§7-3.1 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. [45CSR§7-3.2.]

No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to 45CSR§7-5.1 is required to have a full enclosure and be equipped with a particulate matter control device.

[45CSR§7-3.7.]

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7.

[45CSR§7-4.1.]

Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures.

[45CSR§7-4.12.]

No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To

minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

[45CSR§7-5.1.]

The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

[45CSR§7-5.2.]

At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.

[45CSR§7-8.1.]

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

[45CSR§7-8.2.]

[45CSR13, R13-0974, B.5.]

3.1.10. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Director thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Director may specify shall be conducted to determine compliance.

[45CSR13, R13-0974, B.7.; 45CSR13, R13-2023, B.7.; 45CSR13, R13-2301, B.6.]

3.1.11. When emissions on an annual basis of one or more of the greenhouse gases listed below are greater than the *de minimis* amounts listed below, all greenhouse gases emitted above the *de minimis* amounts shall be reported to the Secretary under 45CSR§42-4. (see Section 3.5.):

Greenhouse Gas Compound	tons/year	
carbon dioxide	10,000	
<u>methane</u>	<u>476</u>	
nitrous oxide	<u>32.6</u>	

Greenhouse Gas Compound	tons/year	
hydrofluorocarbons	<u>0.855</u>	
<u>perfluorocarbons</u>	<u>1.09</u>	
sulfur hexafluoride	<u>0.42</u>	

[45CSR§42-3.1., State-Enforceable only.]

3.2. Monitoring Requirements

3.2.1. Compliance with Section 3 of 45CSR7 (Requirement 3.1.9 of this Permit) shall be determined by conducting visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for all the Emission Points subject to 45CSR7 and units emitting directly into the open air from points other than stack outlet (L-6S, L-7S, L-8S, L-9S, L-10S), including visible fugitive dust emissions that leave the plant site boundaries.

Visual emission observations shall be conducted weekly during periods of normal facility operation to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22 for a minimum of 4 consecutive weeks. If in compliance, then monthly Method 22 checks shall be conducted.

If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct an Opacity Evaluation as outlined in 45CSR§7A-2.1.a,b, within 24 hour period unless the permittee can demonstrate a valid reason that the time frame should be extended. A 45CSR§7A-2.1.a,b evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions with no visible emissions being observed.

Anytime when not in compliance with the opacity limit per 45CSR§7-3.1 for any emission point, reporting as per Requirement 3.5.10. shall be initiated, and for this emission point Method 22 checks shall revert back to the weekly frequency requirement and begin the progressive monitoring cycle again.

Compliance with this Requirement will assure compliance with requirement 3.3.4.f. **[45CSR§30-5.1.c.]**

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and

procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CS, R13-0974A, B.1. and B.10.; R13-1771, B.5. and B.9.]

3.3.2. A test protocol (as per Requirement 3.3.1.c.) shall include detailing on the proposed test methods, the date and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information.

[45CSR13, R13-0974, B.10. and R13-1771, B.9.]

3.3.3. Test results shall be submitted to the Secretary no more than sixty (60) days after the date the testing takes place.

[45CSR13, R13-0974, B.10. and R13-1771, B.9.]

- 3.3.4. Tests that are required by the Director to determine compliance with the emission limitations set forth in this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at 100% of the peak load unless otherwise specified by the Director.
 - a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 CFR 60, Appendix A.
 - b. Tests to determine compliance with SO₂ emission limits shall be conducted in accordance with Method 6, 6A, 6B, or 6C as set forth in 40 CFR 60, Appendix A.

- c. Tests to determine compliance with CO emission limits shall be conducted in accordance with Method 10, 10A, or 10B as set forth in 40 CFR 60, Appendix A.
- d. Tests to determine compliance with NO_x emission limits shall be conducted in accordance with Method 7, 7A, 7B, 7C, 7D, or 7E as set forth in 40 CFR 60, Appendix A.
- e. Tests to determine compliance with VOC and Hydrocarbons emission limits shall be conducted in accordance with Method 25, or 25A as set forth in 40 CFR 60, Appendix A.
- f. Tests to determine compliance with Opacity of emissions shall be conducted in accordance with Method 9 as set forth in 40 CFR 60, Appendix A.
- g. Tests to determine compliance with HAP emission limits shall be conducted in accordance with 40 CFR 63.
- h. Tests to determine compliance with Sulfuric Acid emission limits shall be conducted in accordance with Method 8 as set forth in 40 CFR 60, Appendix A.
- i. Tests to determine compliance with Lead Oxide emission limits shall be conducted in accordance with Method 12 as set forth in 40 CFR 60, Appendix A.

[45CSR13, R13-0974, B.9.; R13-1771, B.8.]

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
 - a. The date, place as defined in this permit and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of the analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A. and 45CSR13, R13-2606, 4.3.1.]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and

maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B. and 45CSR13, R13-2023, B.3.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§30-5.1.c. State-Enforceable only.]

3.4.4. A record of each visible emission observation and opacity evaluation per Requirement 3.2.1., shall be maintained on site and shall be made available to the Director or his/her duly authorized representative upon request. Said records shall include, the date, time, name of emission unit, the applicable visible emission requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer.

[45CSR§30-5.1.c.]

3.4.5. To demonstrate compliance with the Requirement 3.1.9. (45CSR§7-5.1.) the company shall keep records of maintenance and operations of fugitive dust control systems for the following Sources ID 8-1S (Exhaust Hood-148), 9-11S (Zero Grit Blaster-432) and P-96S (Empire Grit Blaster-406-110) (Control Devices ID 9-1C, P-5C).

[45CSR§30-5.1.c.]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

[45CSR§§30-4.4., 5.1.c.3.D. and 45CSR13, R13-2023, B.3.]

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

[45CSR§30-5.1.c.3.E.]

3.5.3. All Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

If to the US EPA:

Director Associate Director

WVDEP Office of Enforcement and Permits Review

Division of Air Quality (3AP12)

601 57th Street SE U. S. Environmental Protection Agency

Charleston, WV 25304 Region III

1650 Arch Street

Phone: 304/926-0475 Philadelphia, PA 19103-2029

FAX: 304/926-0478

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. **[45CSR§30-8.]**
- 3.5.5. Compliance certification. The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3 APD Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.

 [45CSR§30-5.3.e.]
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.

[45CSR§30-5.1.c.3.A.]

- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
 - a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
 - Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative

measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

- 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
- 3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
- 4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

- 3.5.10. Upon observing any visible emissions during an Opacity Evaluation as per Requirement 3.2.1. in excess of twenty percent (20%) opacity (but less than forty percent (40%) opacity) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, or upon observing any visible emissions in excess of forty percent (40%) opacity, the Company shall submit a written report (including day and time of the observation, observation results, and corrective actions taken (if any)), certified by a responsible official, to the Director of the Division of Air Quality within ten (10) days after taking said reading.

 [45CSR§30-5.1.c.]
- 3.5.11. **Greenhouse Gas Reporting Requirements**. When applicable, as determined in permit section 3.1., greenhouse gas emissions shall be reported pursuant to 45CSR§42-4. as follows:
 - a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary.

[45CSR§42-4.1., State-Enforceable only.]

b. Affected sources shall only be required to report annual quantities of anthropogenic non-mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases.

[45CSR§42-4.2., State-Enforceable only.]

c. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4. shall be signed by a responsible official and shall include the following certification statement: "I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry.

[45CSR§42-4.5., State-Enforceable only.]

3.6. Compliance Plan

3.6.1. None.

3.7. Permit Shield

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.
- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
 - (a) 45CSR21– Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds. The facility is not located in a county that is currently subject to 45CSR21, and is therefore currently exempt from this regulation.
 - (b) 40CFR63, Subpart GG, Section 63.745 National Emission Standards for Aerospace Manufacturing Operations. The painting operations at this facility are exempted from Section 63.745Primer and Topcoat operations because Specialty Coatings (definition per 63.742) are used for all painting operations. Specialty Coating applications are covered by Control Technology Guidelines (CTG) EPA-453/R-97-004 enacted under 45CSR21 for RACT control of VOCs. However, the facility is not located in an area that is subject to 45CSR21, and is therefore, not subject to any CTG guidelines for Specialty Coating application.
 - (c) 40CFR63, Subpart PPP National Emission Standards for Polyether Polyol Production. The facility manufactures Terathane Polyethylene Glycol Block Copolymer (TPEG), which is a Polyether Polyol. However, the operation is exempted from this MACT because there are no HAPs used or generated during the manufacturing operation.
 - (d) 40CFR63, Subpart GGGGG National Emission Standards for Site Remediation. The facility currently has one site under remediation for groundwater contamination. This site is a Superfund site and is thus exempt from the MACT requirements. The facility also has a

second site, which will begin remediation as part of a RCRA corrective action program within the next year. This second site would also be exempted since it is being conducted under a RCRA corrective action permit. In addition, neither site would generate emissions of more than 1 megagram per year of HAPs.

- (e) 40CFR63, Subpart PPPPP National Emission Standards for Hazardous Air Pollutants from Engine Test Sells/Stands (05/27/03)- This rule applies to the X-Range Static Rocket Motor Firing facility (Group 00Q). However, per 40CFR63.9290(b) & (d)(2) it is exempt from the requirements of this Subpart due to facility was existing source on May 14, 2002 (partially modified in summer of 2002, Source Q-3S) and also, it is used exclusively for rocket motors testing.
- (f) 40CFR63, Subpart WWWWW National Emission Standards for Reinforced Plastic Composites Manufacturing - The facility manufactures composite based rocket motor chambers and aircraft components. However, the facility is exempt from this MACT because none of the resin or fiber systems used, contain HAPs.

4.0 Boilers Requirements [Emission Units Group ID 00L]

4.1. Limitations and Standards

4.1.1. Emissions to the atmosphere from the coal-fired boiler stack, Source ID 27s (Boiler No. 17, Emission Point L-1E), shall not exceed the following limits:

Pollutant	Emission Rates		
	lb/hr	tons/yr	
Particulate Matter	2	8.8	
Sulfur Dioxide	104	162.8	
Nitrogen Oxides	20	61.4	
Volatile Organic Compounds (VOC)	3	13.2	
Carbon Monoxide	23	101.0	

[45CSR13, R13-0974, A.1.]

- 4.1.2. One of the permittee's two Riley residual oil-fired units designated as Boilers Nos. 15 and 16 (Source ID L-2S and L-3S) shall be shut-down upon start-up of the permitted coal-fired boiler, designated as Boiler No. 17 (Source ID L-1S). After start-up of the coal-fired boiler, only one of the two Riley oil-fired units (Boilers Nos. 15 and 16) shall be operated simultaneously with the permitted coal-fired boiler. [45CSR13, R13-0974, A.2.]
- 4.1.3. Under emergency conditions the designated shut-down Riley oil-fired unit (Boilers Nos. 15 OR 16) may be operated concurrently with the oil-fired boiler designated for operating status (Boilers Nos. 15 OR 16) provided that:
 - a. The permitted coal-fired boiler is shut-down during all such emergency operating periods.
 - b. That all emissions from the designated shut-down boiler during all periods of such emergency operation are counted against (e.g., are subtracted from) annual emissions limitations specified in Requirement 4.1.1. for the coal-fired boiler.

[45CSR13, R13-0974, A.3.]

- 4.1.4. The maximum sulfur content of coal fired in the permitted coal-fired boiler shall not exceed 1.6% by weight provided, however, that the emission limitations of Requirement 4.1.1. are met. [45CSR13, R13-0974, A.4.]
- 4.1.5. No. 2 (two) distillate oil shall be used to fire the 9.92 MMBtu Cleaver Brooks model No. CB-600-2238-150ST boiler (Source ID L-11S).
 - [45CSR13, R13-2023, A.1.]
- 4.1.6. The maximum feed rate of No. 2 distillate oil into the permitted boiler (Source ID L-11S) shall not exceed 65 gallons per hour.

[45CSR13, R13-2023, A.2.]

4.1.7. The maximum percentage of sulfur in the No. 2 distillate oil to be fired in the permitted boiler (Source ID L-11S) shall not exceed 0.4 %.

[45CSR13, R13-2023, A.3.]

4.1.8. The permitted boiler (Source ID L-11S) shall not consume more than 569,400 gallons of No. 2 distillate oil per year.

[45CSR13, R13-2023, A.4.]

4.1.9. The pertinent sections of 45CSR2 and 45CSR2A applicable to this facility (Emission Unit Group 00L) include, but are not limited to, the following:

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than (10) percent opacity based on a six minute block average.

[45CSR§2-3.1.]

Compliance with the visible emission requirements of subsection 3.1 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of subsection 3.1. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control.

[45CSR§2-3.2.]

No person shall cause, suffer, allow or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:

[45CSR§2-4.1.]

For Type 'c' fuel burning units, in excess of the values listed in Table 45-2, provided however that no more than three hundred (300) pounds per hour of particulate matter shall be discharged into the open air from all such units.

[45CSR§2-4.1.c.]

Subject to the provisions of this rule, allowable emission rates for individual stacks shall be determined by the owner and/or operator and registered with the Director at the request of, and on forms provided by, the Director. Such rates shall be subject to review and approval by the Director.

45CSR§2-4.2.]

Sections 45CSR§2-5.1., 5.1.a., 5.1.b. and 5.1.c. below are applicable only to coal fired boilers.

No person shall cause, suffer, allow or permit any source of fugitive particulate matter to operate that is not equipped with a fugitive particulate matter control system. This system shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter. Sources of fugitive particulate matter associated with fuel burning units shall include, but not be limited to, the following:

[45CSR§2-5.1.]

Stockpiling of ash or fuel either in the open or in enclosures such as silos; [45CSR§2-5.1.a.]

Transport of ash in vehicles or on conveying systems, to include spillage, tracking, or blowing of particulate matter from or by such vehicles or equipment; and

[45CSR§2-5.1.b.]

Ash or fuel handling systems and ash disposal areas.

[45CSR§2-5.1.c.]

The owner or operator shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.

[45CSR§2-8.3.c.]

For fuel burning unit(s) which burn only coal, such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis and an ash and BTU analysis for each shipment.

[45CSR§2A-7.1.a.4.]

For fuel burning unit(s) which burn an alternative fuel(s), such records shall include, but not be limited to, the date and time of start-up and shutdown, and fuel quality analysis as approved by the Director.

[45CSR§2A-7.1.a.5.]

The visible emission standards set forth in 45CSR§2-3 shall apply at all times except in periods of start-ups, shutdowns and malfunctions. Where the Director believes that start-ups and shutdowns are excessive in duration and/or frequence, the Director may require an owner or operator to provide a written report demonstrating that such frequent start-ups and shutdowns are necessary. [45CSR§2-9.1.]

The owner or operator of a fuel burning unit(s) subject to 45CSR2 shall report to the Director any malfunction of such unit or its air pollution control equipment which results in any excess particulate matter emission rate or excess opacity (i.e., emissions exceeding the standards in 45CSR§2-3, 4) as provided in one of the following subdivisions: 45CSR§2-9.3.a. and 9.3.b. [45CSR§2-9.3.]

[45CSR13, R13-0974, B.4.; R13-2023, B.6.; R13-2606, 4.1.8. and 45CSR2]

4.1.10. The pertinent sections of 45CSR10 applicable to this facility (Emission Unit Group 00L) include, but are not limited to, the following:

No person shall cause, suffer, allow or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

[45CSR§10-3.3.]

For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

[45CSR§10-3.3.f.]

[45CSR13, R13-0974, B.6.]

4.1.11. Emissions of Particulate Matter to the atmosphere from the oil-fired boilers Nos. 15 and 16 (Emission Points ID L-2E and L-3E), shall not exceed the following limits:

Emission Point	Particulate Matter, lb/hr	
L-2E	7.11	
L-3E	7.11	

[45CSR§2-4.2. a.]

4.1.12. If US EPA has not already promulgated a standard pursuant to 40 C.F.R. 63 for industrial, commercial, institutional boilers and process heaters, the facility shall submit a Part 1 112(j) "equivalent emission limitation by permit" application for case-by-case MACT determination containing the information required in 40 C.F.R. §63.53(a), after July 15, 2010 but no later than August 15, 2010 (Boiler No. 1, Source ID L-11S, Boiler No. 2, Source ID L-12S, Boiler No. 17, Source ID L-1S). The Part 1 112(j) application shall identify each affected unit, and address HAP emissions from each of the boilers and process heaters. If the facility determines there are no affected units (boilers or process heaters), a statement of non-applicability must be submitted in lieu of a Part 1 application. A Part 2 112(j) "equivalent emission limitation by permit" application for case-by-case MACT determination containing information required in 40 C.F.R. §63.53(b) is due within 60 days of the Part 1 112(j) application submittal. All 112(j) "equivalent emission limitation by permit" applications must be submitted to both WVDEP-Division of Air Quality, and Chief of Permits and Technical Branch, US EPA Region III, Mail Code 3AP11, 1650 Arch Street, Philadelphia, PA, 19103-2029.

[45CSR34, 40 C.F.R. §63.52]

- 4.1.13. The boiler, identified as L-12S shall burn only distillate oil. [45CSR13, R13-2606, 4.1.1, and 4.1.2.]
- 4.1.14. The maximum distillate oil consumption of Boiler L-12S shall not exceed 75 gallons per hour. [45CSR13, R13-2606, 4.1.3.]
- 4.1.15. The maximum sulfur content for the No. 2 distillate fuel oil to be burned in the boiler L-12S shall not exceed 0.5% by weight.

[45CSR13, R13-2606, 4.1.4.]

4.1.16. The maximum emission rates for boiler L-12S shall not exceed the following:

ID No.	Source Emission Point		Pollutant	# 2 Distillate Fuel Oil	Emission Rate ⁽¹⁾
		ID No		lb/hr	ton/yr
L-12S	# 2 Distillate Oil	L-6E	CO	0.38	1.64
	- Fired Boiler		NOx	1.5	6.57
			PM	0.25	1.08
			SO_2	5.3	23.32
		VOC	0.02	0.07	

(1) Based on burning # 2 distillate fuel oil at a rate of 75 gal/hr at 8,760 hr/yr with 0.5% sulfur.

[45CSR13, R13-2606, 4.1.5.]

4.2. Monitoring Requirements

4.2.1. To determine compliance with Requirement 4.1.4., the permittee shall perform sufficient sampling and analyses of fuels to verify that sulfur contents, ash contents and heating values meet the appropriate specifications and any limitations set forth in Permit Applications R13-0974 and R13-0974A and this permit. With respect to the coal fired in the permitted stoker-fired boiler No. 17 (Source ID L-1S), at least one truckload per every twenty truckloads of coal received shall be sampled and analyzed. The results of all such analyses shall be maintained on site for a period of five (5) years and certified results shall be made available to the Director or his duly authorized representative upon request.

[45CSR13, R13-0974, B.8.]

- 4.2.2. To demonstrate compliance with the requirements of 45CSR§10-8.2.c. and 45CSR§10A-6.1. the following Monitoring Plan was approved for coal fired Boiler No. 17 (Source ID L-1S, Emission Point L-1E):
 - a. No SO₂ weight emission testing per 45CSR§10A-5.1.a. is required for the boiler if sulfur content of the bituminous coal used is 1.2% or less (which keeps SO₂ emissions below testing applicability level). Therefore, compliance shall be determined by monitoring the sulfur content of the coal and the use of AP-42 emission factors.
 - b. ATK's coal contract specifies that a stockpile be reserved for ATK use. A copy of the laboratory analysis from the coal company shall be obtained with the first load from the stockpile which lasts approximately one month. Initial stockpile analysis would be representative of the remaining shipments. SO₂ emissions shall be calculated on a monthly basis using sulfur content analysis and AP-42 emission factor to determine compliance with the weight emission factors per 45CSR§10-3.1.e.
 - c. The facility specifications provided to coal vendors require coal sulfur content of 1% or less in order to maximize fuel burning efficiency. Compliance with the 1% sulfur content will assure compliance with SO_2 hourly emission limit set forth in Requirement 4.1.1., and with the Requirements 4.1.4. and 4.2.2.a.
 - d. If at any time sulfur content of the burning coal would exceed 1.2%, report shall be submitted to the DAQ Director within 30 days.

[45CSR§10A-6.4. and 45CSR§30-5.1.c.]

- 4.2.3. To demonstrate compliance with the requirements of 45CSR10 and 45CSR10A, the following Monitoring Plan was approved for Boilers Nos. 15 and 16 (Source ID L-2S & L-3S, Emission Points L-2E & L-3E):
 - a. No stack testing to determine SO_2 weight emission factor is required per 45CSR\$10A-5.1.a. for the oil fired boilers if sulfur content of the oil is 1.5% or less per shipment (which keeps SO_2 emissions of any one of the two boilers below testing applicability level). Therefore, compliance shall be determined by monitoring the sulfur content of the oil burned, quantity of oil burned, and the use of AP-42 emission factors.
 - b. A copy of the laboratory analysis from the oil company shall be obtained with each delivery ticket. Emissions shall be calculated on a monthly basis to determine compliance with the weight emission standard per 45CSR§10-3.1.e.

- c. The facility specifications provided to oil vendors require oil sulfur content of 1% or less in order to maximize fuel burning efficiency. Compliance with the 1% sulfur content will assure compliance with the Requirement 4.2.3.a.
- f. If at any time sulfur content of the burning oil would exceed 1.5%, report shall be submitted to the DAQ Director within 30 days.

[45CSR§10A-6.4. and 45CSR§30-5.1.c.]

4.2.4. Compliance with opacity standard per 45CSR§2-3.1. (Requirement 4.1.9. of this Permit) shall be determined by conducting visual emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 for the Emission Points L-1E, L-2E, L-3E, L-5E, L-6E.

Visual emission observations shall be conducted weekly during periods of normal facility operation to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22 for a minimum of 4 consecutive weeks. If in compliance, then monthly Method 22 checks shall be conducted.

If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct an Opacity Evaluation as outlined in 40CFR60 Appendix A, Method 9, within 24 hour period unless the permittee can demonstrate a valid reason that the time frame should be extended. Method 9 evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions with no visible emissions being observed.

Anytime when not in compliance with the opacity limit per 45CSR§2-3.1. for any emission point, reporting shall be initiated, and for this emission point Method 22 checks shall revert back to the weekly frequency requirement and begin the progressive monitoring cycle again.

[45CSR§30-5.1.c. and 45CSR13, R13-2606, 4.2.1.]

4.2.5. In order to maintain compliance with the PM emission limit set forth in Requirement 4.1.1 (Emission Point L-1E) the permittee shall use fired coal with ash content maximum of 15%.

[45CSR§30-12.7.]

4.3. Testing Requirements

4.3.1. At such reasonable time(s) as the Director may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations as set forth in Requirement 4.1.1. above. Test(s) shall be conducted in accordance with Requirements 3.3.1., 3.3.3., and 3.3.4.a.-f. contained herein. The Director, or his duly authorized representative, may, at his option, witness or conduct such tests. Should the Director exercise his option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices.

[45CSR13, R13-0974A, B.1.]

4.3.2. To determine compliance with the NOx and CO hourly emission limitations as set forth in Requirement 4.1.1. test(s) per Requirement 4.3.1. shall be conducted once per permit term.

[45CSR§30-12.7.]

4.4. Recordkeeping Requirements

- 4.4.1. In order to demonstrate compliance with NOx, CO, PM, VOC and SO₂ emission limits set forth in Requirement 4.1.1., the permittee shall maintain monthly and yearly records of following calculations. Compliance with hourly emission rates shall be demonstrated based on monthly emission calculations as follows: for PM and VOC utilizing AP-42 emission factors, for NOx and SO₂ as per Requirement 4.4.2.d., for CO utilizing test derived emission factors from results of test required in Section 4.3. Compliance with the annual emission limit shall be demonstrated using a Rolling Yearly Total. Rolling Yearly Total means the sum of emissions generated at any given time for the previous twelve (12) consecutive calendar months. Said records shall be maintained on-site and shall be certified and made available to the Director or his/her duly authorized representative upon request. [45CSR§30-5.1.c.]
- 4.4.2. To determine compliance with Requirements 4.1.2. and 4.1.3, the permittee shall maintain monthly fuel use reports and boiler operation records of the following information:
 - a. Total hours of operation during the month for each boiler operated by the permittee at the Allegany Ballistics Laboratory during the month.
 - b. Actual monthly fuel use/fuel quality for fuels consumed during the month including a summary of the results of all fuel analyses performed by the permittee.
 - c. Actual recorded fuel oil consumption for each oil-fired boiler or an estimate of the percentage of the total fuel oil use in each oil-fired boiler at Allegany Ballistics Laboratory. The report must show actual fuel oil consumption by the designated "shut-down" Riley oil-fired unit (Boilers Nos. 15 or 16, Source ID L-2S and L-3S) if the shut-down boiler was operated for emergency conditions as set forth under Requirement 4.1.3. The dates and durations of such boiler operations shall also be specified in the monthly report.
 - d. An estimate of total sulfur dioxide and nitrogen oxides emissions from the permitted coal-fired unit (Emission Point L-1E) for the month, including all emissions from any emergency operation of the designated stand-by oil-fired boilers (Nos. 15 or 16, Source ID L-2S and L-3S). Emissions from the oil-fired stand-by unit shall be calculated using the reported fuel use and fuel quality data for the month and AP-42 emission factors (or more accurate source-specific emission factors derived from stack testing of the Allegany Ballistics Laboratory boilers). For the coal-fired boiler (No. 17), monthly SO₂ and NO_X emissions shall be estimated using emission factors derived for this Allegany Ballistics Laboratory boiler from stack tests conducted in accordance with Requirement 4.3.1. provided, however, that SO₂ emissions may also be calculated from the fuel use/fuel quality data and the assumption of 100% conversion of fuel sulfur to SO₂.
 - e. Baghouse (ID No. L-1C) by-pass records as per Requirement 4.1.9, 45CSR§2-9.3.

These reports shall be maintained on site and a certified report shall be made available to the Director or his duly authorized representative upon request

[45CSR13, R13-0974, B.2.]

4.4.3. To demonstrate compliance with Requirements 4.1.6. and 4.1.8., the permittee shall maintain a record of the usage of No. 2 distillate oil for No. 1 Oil-Fired Boiler-8501 (Source ID L-11S), and the operating hours on a rolling yearly total. A rolling yearly total shall mean the sum of the usage of No. 2 distillate oil or the sum of the operating hours at any given time for the previous twelve (12) consecutive calendar months. Said records shall be kept in a manner similar to APPENDIX A of the Permit R13-2023A: for each month

record daily Usage (gal), Hours of Operation, and their Monthly Total. Said records shall be maintained onsite and shall be certified (Attachment 1 to this Permit) and made available to the Director or his/her duly authorized representative upon request.

[45CSR13, R13-2023, B.1.]

- 4.4.4. To demonstrate compliance with Requirements 4.1.7., the permittee shall maintain records of the sulfur content, as percent sulfur, in the No. 2 distillate oil which is purchased for the purpose of consumption in the permitted boilers (No. 1 Oil-Fired Boiler-8501, Source ID L-11S).
 [45CSR13, R13-2023, B.2.]
- 4.4.5. In order to assure proper operation of the baghouse (Source ID No. L-1S) the permittee shall conduct an annual preventative maintenance inspection / cleaning / replacement / refurbishment of the bags, bag connection, and dust hoppers, as appropriate, of the baghouse L-1C. Records shall be maintained on site stating the date and time of each baghouse's annual preventative maintenance activity, the results of the annual preventative maintenance activity, and all corrective actions taken.

 [45CSR§30-5.1.c.]
- 4.4.6. To demonstrate compliance with the Requirement 4.1.9. (45CSR§2-8.3.c., 45CSR§2A 7.1.a.4. and 7.1.a.5.) and Requirement 4.2.5. the permittee shall keep the following records:
 - a. For Boiler No. 17 (Source ID L-1S, Emission Point L-1E) date and time of start up and shutdown, the quantity of coal consumed on a daily basis, and an ash and BTU analysis for the first shipment from each new stockpile used (as per Requirement 4.2.2.b.);
 - b. For Boilers Nos. 15 and 16 (Source ID L-2S & L-3S, Emission Points L-2E & L-3E) the date and time of start-up and shutdown, and oil BTU analysis on a monthly basis.

[45CSR§30-5.1.c.]

4.4.7. To demonstrate compliance with the PM emission standard per 45CSR§2-4.1.b. for oil fired boilers set forth in Requirement 4.1.11., the permittee shall calculate average hourly PM emission rate for each boiler based on oil usage and oil sulfur content (monitored per Requirement 4.2.3.c.) on a monthly basis. Records shall be maintained on site.

[45CSR§30-5.1.c.]

4.4.8. For the purpose of demonstrating compliance with Requirements 4.1.13 thru 4.1.16, the permittee shall record the type of fuel, daily fuel use, and hours of operation of No.2 Oil-Fired Boiler-8501 (Source ID L-12S).

[45CSR13, R13-2606, 4.3.4.]

- 4.5. Reporting Requirements
 - 4.5.1. None.
- 4.6. Compliance Plan
 - 4.6.1. None.

5.0 Research Complex Requirements [Emission Units Group ID 00P]

5.1. Limitations and Standards

5.1.1. Emission to the atmosphere from the Research Complex shall not exceed the following limits:

Building	Emission Point ID	D.11	1 (77)
394	P-23E, P-24E	Pollutant Total VOC	Annual (TPY)
394	F-23E, F-24E		1
		Total HAPs	0.25
		PM	0.003
		NOx	0.001
		СО	0.001
		Lead compounds	0.001
396	P-37E, P-38E, P-39E	Total VOC	1.6
		Total HAPs	1.5
400	P-43E, P-44E, P-	Total VOC	1
	45E, P-46E, P-47E, P-48E	Total HAPs	0.5
401	P-49E, P-50E, P-51E	Total VOC	1.5
		Total HAPs	1
403	P-35E	Total VOC	1
		Total HAPs	1
404	P-33E, P-34E	Total VOC	1
		Total HAPs	0.5
		PM	0.01
		NOx	0.001
		СО	0.001
		Lead compounds	0.001
405	P-25E, P-26E, P- 27E, P-28E, P-29E	Total VOC	1
		Total HAPs	1
406	P-31E	Total VOC	0.5
		Total HAPs	0.25

[45CSR13, R13-1771, A.1.]

- 5.1.2. Emissions of all mineral acids from the Research Complex (Emission Points P-23E, P-25E, P-26E, P-28E, P-29E, P-34E) shall be less than 0.1 lb/hr for any Emission Point and less than 100 lb/year aggregate for all mineral acids sources in order to be exempt from requirements of 45CSR§7-4.2. (per 45CSR§7-10.6.). [45CSR13, R13-1771, A.2.]
- 5.1.3. Total emissions of Methylene Chloride from the Research Complex (Buildings 394, 404, 405, 406; Emission Points P-23E, P-24E, P-33E, P-34E, P-25E, P-26E, P-27E, P-28E, P-29E, P-31E) and Building 21 (Laboratory and small scale nitroglycerin sparging operations, Emission Point P-12E), shall not exceed 922 lb/yr.

[45CSR13, R13-1771, A.3.]

5.1.4. If the Research Complex emits any Hazardous Air Pollutant (HAP) or Toxic Air Pollutant (TAP) from the Research Complex other than listed in Attachment 2, the permittee shall provide written notification to the Director of the Division of Air Quality within fifteen (15) days after knowledge of such emissions. This written notification shall include the potential to emit (in lb/hr and TPY) for each of these HAP species. Unless the Director determines these emissions to be insignificant, the Company shall submit a compliance program for control of such emissions within sixty (60) days of the date of notification. Upon a determination by the Director that the proposed compliance program represents BAT, the Director shall, in his or her discretion, consider such program for a consent order and shall determine the conditions to be met for approval and entry of such consent order.

[45CSR13, R13-1771, A.4.]

5.2. Monitoring Requirements

5.2.1. None.

5.3. Testing Requirements

5.3.1. If testing is required by Director to determine compliance with the emission limitations as set forth in Requirements 5.1.1., 5.1.2., 5.1.3. and 5.1.4. above, such test(s) shall be conducted in accordance with Requirements 3.3.1. through 3.3.4. contained herein.

[45CSR13, R13-1771, B.5. and 45CSR§30-5.1.c.]

5.4. Recordkeeping Requirements

5.4.1. To determine compliance with the emission limits set forth in Requirement 5.1.1. above, the permittee shall maintain monthly and yearly records of materials purchased for each building, and perform monthly emission calculations based on mass balance for each building. Compliance with the annual emission limits for each building shall be demonstrated using a Rolling Yearly Total (Attachment B of the Permit R13-1771B): for each year and for each pollutant (VOC(s), NO_x, CO and PM) record Pounds and Tons Emitted on a monthly basis. Rolling Yearly Total means the sum of emissions of any pollutant emitted at any given time for the previous twelve (12) consecutive calendar months. Said records shall be maintained on-site for a period of no less than five (5) years and shall be certified and made available to the Director or his/her duly authorized representative upon request.

[45CSR13, R13-1771, B.1.]

5.4.2. In order to demonstrate compliance with the Requirement 5.1.2., the permittee shall maintain monthly and yearly records. Compliance with hourly emission rate shall be demonstrated based on monthly calculations of mineral acids emissions for each Emission Point listed. Compliance with the annual emission limit shall

be demonstrated using a Rolling Yearly Total. Rolling Yearly Total means the sum of all mineral acids generated by all the Emission Points listed at any given time for the previous twelve (12) consecutive calendar months. Said records shall be maintained on-site for a period of no less than five (5) years and shall be certified and made available to the Director or his/her duly authorized representative upon request. [45CSR13, R13-1771, B.2.]

5.4.3. In order to demonstrate compliance with the Requirement 5.1.3., the permittee shall maintain monthly and yearly records of methylene chloride emissions for all the Research Complex buildings. Compliance with the annual emission limit shall be demonstrated using a Rolling Yearly Total. Rolling Yearly Total means the sum of total methylene chloride emissions generated by all the Research Complex buildings at any given time for the previous twelve (12) consecutive calendar months. Said records shall be maintained on-site for a period of no less than five (5) years and shall be certified and made available to the Director or his/her duly authorized representative upon request.

[45CSR13, R13-1771, B.3.]

- 5.4.4. In order to demonstrate compliance with the Requirement 5.1.4., the permittee shall maintain yearly records of all the HAPs emitted at the Research Complex (except lead compounds and methylene chloride as noted in Requirements 5.3.1. and 5.3.3.). Compliance with the Table 45-13A / 45CSR27 Emission Rate Threshold shall be demonstrated using a Rolling Yearly Total. Rolling Yearly Total means the sum of total emissions of each individual HAP generated by the Research Complex at any given time for the previous twelve (12) consecutive calendar months. Said records shall be maintained on-site for a period of no less than five (5) years and shall be certified and made available to the Director or his/her duly authorized representative upon request. [45CSR13, R13-1771, B.4.]
- 5.4.5. In order to ensure proper operation of the Cyclone Dust Collector (Source ID No. P-5C), the permittee shall conduct an annual preventative maintenance inspection / cleaning / replacement / refurbishment of the bags, bag connection, and dust hoppers, as appropriate. Records shall be maintained on site stating the date and time of each baghouse's annual preventative maintenance activity, the results of the annual preventative maintenance activity, and all corrective actions taken.

 [45CSR§30-5.1.c.]
- 5.4.6. The permittee shall conduct an annual preventative maintenance inspection / cleaning / replacement / refurbishment of the bags, filters, bag connection, and dust hoppers, as appropriate, of the baghouses and HEPA Filter Systems (Source ID No. P-6C and P-8C) in order to ensure proper operation of the control devices. Records shall be maintained on site stating the date and time of each control device annual preventative maintenance activity, the results and all corrective actions taken.

 [45CSR§30-5.1.c.]

5.5. Reporting Requirements

5.5.1. None.

5.6. Compliance Plan

5.6.1. None.

6.0 TPEG Polymer Manufacture Requirements [Emission Units Group ID 00T]

6.1. Limitations and Standards

6.1.1. Maximum production shall not exceed the following:

Product	lbs/batch	tons/year
Terathane/Polyethylene Glycol Block Copolymer	3001	250
Tetrahydrofuran (by product)	2998	250

[45CSR13, R13-2301, A.1.]

6.1.2. Maximum emissions shall not exceed the following:

Emission Point ID	Control Device ID	Emission Source Name and ID	Pollutant	lb/hr	lb/year
		Reactor T-1S			
		Reactor Distillate Receiver T-2S	Tetrahydrofuran 1.25 1		
T-1E	T-1C	Separator T-3S		1.25	5 1700
		Wiped Film Evaporator T-4S			
		Waste Acid Water Tank T-5S			
T-5E	None	THF Drum Filling Station T-6S	Tetrahydrofuran	2.5	800

[45CSR13, R13-2301, A.2.]

6.1.3. The scrubber (T-1C) shall be maintained, and operated in accordance with the information submitted in Permit Application No. R13-2301. The principal operating conditions which shall be adhered to include, but are not limited to the following:

Nitrogen Purge Rate (CFM)	Liquor Flow Rate to Scrubber (gallons/minute)
17	24

[45CSR13, R13-2301, A.3.]

6.2. Monitoring Requirements

6.2.1. None.

6.3. Testing Requirements

6.3.1. If testing is required by Director to determine compliance with the maximum allowable emission limits established in Requirement 6.1.2, the facility shall conduct performance tests of the scrubber (T-1C) in accordance with Requirements 3.3.1. through 3.3.4. contained herein.

[45CSR13, R13-2301, C.4. and 45CSR§30-5.1.c.]

6.4. Recordkeeping Requirements

6.4.1. For the purpose of determining compliance with the maximum production rates set forth in Requirement 6.1.1, the facility shall maintain monthly and annual records of production. Records shall be maintained on site for a period of five (5) years. Certified copies of these records shall be made available to the Director or his duly authorized representative upon request.

[45CSR13, R13-2301, B.2.]

6.4.2. For the purpose of determining compliance with the maximum allowable emission limits for Emission Point T-5E established in Requirement 6.1.2, the facility shall maintain monthly and annual records of the number of drums filled and the cumulative time required for drum filling at the tetrahydrofuran drum filling station (T-6S), and perform monthly and annual emission calculations. Compliance with the hourly emission rates shall be determined using the average hourly emission rate for each month. Compliance with the annual emission rates shall be determined using a rolling yearly total. A rolling yearly total shall mean the total emission rates emitted at any given time for the previous twelve (12) consecutive calendar months.

[45CSR13, R13-2301, B.3. and 45CSR§30-5.1.c.]

6.4.3. For the purpose of determining compliance with the maximum allowable emission limits for Emission Point T-1E established in Requirement 6.1.2, the facility shall maintain monthly and annual records, and perform monthly and annual emission calculations. Compliance with the hourly emission rates shall be determined using the average hourly emission rate for each month based on a test derived emission factor and reaction time (recorded on a daily basis). Compliance with the annual emission rates shall be determined using a rolling yearly total. A rolling yearly total shall mean the total emission rates emitted at any given time for the previous twelve (12) consecutive calendar months.

[45CSR§30-5.1.c.]

- 6.4.4. Malfunctions of the scrubber (T-1C) must be documented in writing and records maintained at the facility for a period of five (5) years. At a minimum, the following information must be documented for each malfunction:
 - a. The equipment involved and associated cause of the malfunction.
 - b. Steps taken to correct the malfunction.
 - c. Steps taken to minimize emissions during the malfunction.
 - d. The duration of the malfunction.
 - e. The estimated increase in emissions during the malfunction.
 - f. Any changes or modifications to equipment or procedures that would help prevent future recurrence of the malfunction.

[45CSR13, R13-2301, B.5.]

6.4.5. For purpose of demonstrating compliance with the Requirement 6.1.3. the permittee shall keep records of the scrubber principal operating conditions (Nitrogen Purge Rate and Liquor Flow Rate to Scrubber). [45CSR§30-5.1.c.]

6.5. Reporting Requirements

6.5.1. None.

6.6. Compliance Plan

6.6.1. None.

7.0 Emergency Engines [emission point ID(s): EG-1 thru 10]

7.1. Limitations and Standards

These engines are subject to the attached 45CSR13 General Permit G60-C020. Section 7 of Class II General Permit (40CFR60 Subpart IIII) applies only to engines EG-7, EG-9 and EG-10.

[EG-1 thru 10]

Note: Please refer to the fact sheet for explanation of a mistake in 45CSR13 General Permit G60-C020 Registration.

7.1.1. 40 C.F.R. § 63.6640 (f) Requirements for emergency stationary RICE.

- (1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
 - (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
 - (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.
 - (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

[EG-1, 3, 4, 5, 7, 8 and 9][45CSR34; 40 C.F.R § 63.6640]

- (2) If you own or operate an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. If you do not operate the engine according to the requirements in paragraphs (f)(2)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
 - (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
 - (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.
 - (iii) You may operate your emergency stationary RICE for an additional 50 hours per year in nonemergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[EG-2 and 6][45CSR34; 40 C.F.R § 63.6640]

- 7.1.2. 40 C.F.R. § 63.6605 What are my general requirements for complying with this subpart?
 - (a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.
 - (b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[EG-1, 3, 4, 5 and 8][45CSR34; 40 C.F.R § 63.6605]

7.1.3. 40 C.F.R. § 63.6602 What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

Table 2c to Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions

As stated in 40 C.F.R. §§63.6600, 63.6602, and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE located at a major source of HAP emissions and existing spark ignition stationary RICE ≤500 HP located at a major source of HAP emissions:

For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
RICE and black start stationary CI RICE. ¹	operation or annually, whichever comes first; ² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ³

If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[EG-1, 3, 4, 5 and 8][45CSR34; 40 C.F.R § 63.6602]

7.2. Monitoring Requirements

- 7.2.1. 40 C.F.R. § 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?
 - (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:
 - (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;
 - (f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
 - (h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
 - (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new;

²Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) in order to extend the specified oil change requirement in Table 2c of this subpart.

³Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[EG-1, 3, 4, 5 and 8][45CSR34; 40 C.F.R § 63.6625]

7.3. Testing Requirements

7.3.1. N/A

7.4. Recordkeeping Requirements

7.4.1. 40 C.F.R. § 63.6655 What records must I keep?

- (a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) of this section.
 - (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
 - (2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
 - (3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
 - (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
 - (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
 - (1) Records described in §63.10(b)(2)(vi) through (xi).
 - (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).
 - (3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.
- (d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.
- (e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;
 - (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.
 - (2) An existing stationary emergency RICE.
 - (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.
- (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the

- engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
- (1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.
- (2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[EG-1, 3, 4, 5 and 8][45CSR34; 40 C.F.R § 63.6655]

7.5. Reporting Requirements

7.5.1. § 63.6645 What notifications must I submit and when?

- a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;
 - (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
 - (2) An existing stationary RICE located at an area source of HAP emissions.
 - (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
 - (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
 - (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

[EG-1, 3, 4, 5 and 8][45CSR34; 40 C.F.R § 63.6645]

(f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

[EG-6, 7 and 9][45CSR34; 40 C.F.R § 63.6645]

7.6. Compliance Plan

7.6.1. N/A

Administrator of USEPA); or

d.

ATTACHMENT 1

CERTIFICATION OF DATA ACCURACY

	I, the undersigned, hereby certify that, based on in	formation and belief formed after reasonable inquiry, all
informa	ation contained in the attached	, representing the period be ginning
	and ending	, and any supporting documents
append	led hereto, is true, accurate, and complete.	
Signatu	ıre ¹	
(please	e use blue ink) Representative	Responsible Official or Authorized Date
	and Title	
(please	print or type)	Name Title
Teleph	one No	Fax No.
1	This form shall be signed by a "Responsible Offici	al." "Responsible Official" means one of the following:
a.	business function, or any other person who perform or a duly authorized representative of such person	rer, or vice-president of the corporation in charge of a principal as similar policy or decision-making functions for the corporation, if the representative is responsible for the overall operation of one cilities applying for or subject to a permit and either:
	(I) the facilities employ more than 250 persons or (in second quarter 1980 dollars), or	have a gross annual sales or expenditures exceeding \$25 million
	(ii) the delegation of authority to such representat	ve is approved in advance by the Director;
b.	For a partnership or sole proprietorship: a general	partner or the proprietor, respectively;
c.	official. For the purposes of this part, a principal e	entity: either a principal executive officer or ranking elected xecutive officer of a Federal agency includes the chief executive ons of a principal geographic unit of the agency (e.g., a Regional

The designated representative delegated with such authority and approved in advance by the Director.

ATTACHMENT 2

Allegany Ballistics Laboratory R13-1771B 057-00011

CAS No.	НАР	Table 45-13A / Rule 27 Toxic Air Pollutant?	Facility Exceeds 45-13A / Rule 27 Potential Emission Rate Threshold?
75-07-0	Acetaldehyde	No	
60-35-5	Acetamide	No	
75-05-8	Acetonitrile	No	
98-86-2	Acetophenone	No	
107-13-1	Acrylonitrile	Yes	No
107-05-1	Allyl chloride	Yes	No
62-53-3	Aniline	No	
1332-21-4	Asbestos	Yes	No
100-44-7	Benzyl chloride	No	
92-52-4	Biphenyl	No	
117-81-7	Bis(2-ethylhexyl)phthalate (DOP)	No	
75-25-2	Bromoform	No	
75-15-0	Carbon disulfide	No	
56-23-5	Carbon tetrachloride	Yes	No
79-11-8	Chloroacetic acid	No	
108-90-7	Chlorobenzene	No	
67-66-3	Chloroform	Yes	No
98-82-8	Cumene	No	
84-74-2	Dibutyl phthalate	No	
106-46-7	Dichlorobenzene-1,4 (p)	No	
111-42-2	Diethanolamine	No	
68-12-2	Dimethyl formamide	No	
131-11-3	Dimethyl phthalate	No	
51-28-5	Dinitrophenol-2,4	No	
121-14-2	Dinitrotoluene-2,4	No	
123-91-1	Dioxane-1,4	No	

CACA	НАР	Table 45-13A / Rule	Facility Exceeds 45-13A / Rule 27 Potential Emission
CAS No.	ПАГ	27 Toxic Air Pollutant?	Rate Threshold?
106-89-8	Epichlorohydrin	No	
140-88-5	Ethyl acrylate	No	
100-41-4	Ethyl benzene	No	
51-79-6	Ethyl carbamate (Urethane)	No	
107-21-1	Ethylene glycol	No	
151-56-4	Ethylene imine (Aziridine)	No	
75-21-8	Ethylene oxide	Yes	No
50-00-0	Formaldehyde	Yes	No
822-06-0	Hexamethylene-1,6-diisocyanate (HDI)	No	
110-54-3	Hexane	No	
7647-01-0	Hydrochloric acid	No	
7664-39-3	Hydrofluoric acid	No	
123-31-9	Hydroquinone	No	
78-59-1	Isophorone	No	
108-31-6	Maleic anhydride	No	
67-56-1	Methanol	No	
74-83-9	Methyl bromide (Bromomethane)	No	
74-87-3	Methyl chloride (Chloromethane)	No	
71-55-6	Methyl chloroform (1,1,1-TCA)	No	
78-93-3	Methyl ethyl ketone (MEK)	No	
74-88-4	Methyl iodide (Iodomethane)	No	
108-10-1	Methyl isobutyl ketone (MIBK)	No	
80-62-6	Methyl methacrylate	No	
101-68-8	Methylene diphenyl diisocyanate (MDI)	No	
91-20-3	Naphthalene	No	
98-95-3	Nitrobenzene	No	
100-02-7	Nitrophenol-4	No	
79-46-9	Nitropropane-2	No	
87-86-5	Pentachlorophenol	No	
109-95-2	Phenol	No	

CAS No.	НАР	Table 45-13A / Rule 27 Toxic Air Pollutant?	Facility Exceeds 45-13A / Rule 27 Potential Emission Rate Threshold?
106-50-3	Phenylenediamine-p	No	
7723-14-0	Phosphorus	No	
85-44-9	Phthalic anhydride	No	
75-55-8	Propylenimine-1,2 (2- Methylaziridine)	No	
100-42-5	Styrene	No	
108-88-3	Toluene	No	
584-84-9	Toluene diisocyanate-2,4	No	
95-53-4	Toluidine-o	No	
120-82-1	Trichlorobenzene-1,2,4	No	
79-01-6	Trichloroethylene	Yes	No
121-44-8	Triethylamine	No	
108-05-4	Vinyl acetate	No	
1330-20-7	Xylenes	No	
	Antimony compounds	No	
	Arsenic compounds	Yes	No
	Beryllium compounds	Yes	No
	Cadmium compounds	No	
	Chromium compounds	No	
	Cobalt compounds	No	
	Glycol ethers	No	
	Lead compounds	Yes	No
	Manganese compounds	No	
	Mercury compounds	Yes	No
	Fine Mineral Fibers	No	
	Nickel compounds	No	
	Radionuclides	No	
	Selenium compounds	No	

ATTACHMENT 3 G60-C020

West Virginia Department of Environmental Protection Division of Air Quality Randy C. Hu

Joe Manchin, III Governor Randy C. Huffman Cabinet Secretary

Class II General Permit G60-C Registration to Construct



This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

G60-C020

Issued to:

Alliant Techsystems, Inc. ATK Tactical Propulsion 057-00011

Director

Issued: September 30, 2010 • Effective: September 30, 2010

John A. Benedict

Facility Location:

Rocket Center, Mineral County, West Virginia 210 State Route 956, Rocket Center, WV 26726

Mailing Address:

ATK Tactical Propulsion

Facility Description: SIC Codes:

3764

UTM Coordinates:

686.470~km Easting $\, \bullet\, 4381.250~km$ Northing $\, \bullet\, \,$ Zone 17

Registration Type: Construction Subject to 40CFR60 Subpart IIII? Yes

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia.

West Virginia Code §22-5-14.

This permit does not affect 45CSR30 applicability, the source is a nonmajor source subject to 45CSR30.

General Permit Registration Number: G60-C020

Registrant: Alliant Techsystems, Inc. Facility Name: ATK Tactical Propulsion

Mailing Address: 210 State Route 956, Rocket Center, WV 26726

This Class II General Permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §22-5-1 et seq.) and 45CSR13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The registrant identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of the G60-B Class II General Permit.

All registered facilities under Class II General Permit G60-C are subject to Sections 1.0, 2.0, 3.0, and 4.0.

The following sections of Class II General Permit G60-C apply to the registrant:

Section 5	Reciprocating Internal Combustion Engines (R.I.C.E.)	X
Section 6	Tanks	\mathbf{X}
Section 7	Standards of Performance for Stationary Compression Ignition Internal	X
	Combustion Engines (40CFR60 Subpart IIII)	
Section 8	Standards of Performance for Stationary Spark Ignition Internal	
	Combustion Engines (40CFR60 Subpart JJJJ)	

Emission Units

Emission	Emission	Emission Unit Description	Year	Design Capacity
Unit ID	Point ID	(Make, Model, Serial No.)	Installed	(bhp/rpm) gallons
EG-1	EG-1	Onan DGEA (Portable) (Bldg 372)	1998	167.6 bhp / 1800 rpm
EG-2	EG-2	Cummins-Onan 400 DFEB (Bldg (344)	1993	600 bhp / 1800 rpm
EG-3	EG-3	Kohler (Bldg 415)	1999	241.4 bhp / 1800 rpm
EG-4	EG-4	Kohler 300ROEZD71 (Bldg 440)	1995	490 bhp / 1800 rpm
EG-5	EG-5	Kohler 300ROEZD72 (Bldg 440)	1998	490 bhp / 1800 rpm
EG-6	EG-6	Kohler 800REOZM (Bldg 449)	2004	1,207 bhp / 1800 rpm
EG-7	EG-7	Kohler 500REOZVB-IC2C2 Tier 2 (Bldg 440)	2008	757 bhp / 1800 rpm
EG-8	EG-8	Stamford D5847/1(Bldg 8501)		90 bhp / 1800 rpm
EG-9	EG-9	MTU 1250RXC5DT2 Tier 2 (Bldg 449)	2010	1,675.25 bhp / 1800 rpm
EG-10	EG-10	Caterpillar D100-4 Tier 2 (Bldg 385)	2006	157.5 bhp / 1800 rpm

Fuel Oil Requirements

Maximum Sulfur Content Limit: 0.05%

Minimum Cetane Index: 40 Or Maximum Aromatic Content of: 35% by Volume

Emission Limitations

ssion Limitations			
Emission Unit	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
	Nitrogen Oxides	5.20	1.30
EG-1 Building 372	Carbon Monoxide	1.12	0.28
Onan DGEA 167.6 HP	Volatile Organic Compounds	0.41	0.10
(1998)	Sulfur Dioxide	0.34	0.09
	Particulate Matter-10	0.37	0.09
EG-2	Nitrogen Oxides	18.60	4.65
Building 344 Cummins-	Carbon Monoxide	4.01	1.00
Onan 400DFEB	Volatile Organic Compounds	1.48	0.37
(1993)	Sulfur Dioxide	1.23	0.31
	Particulate Matter-10	1.32	0.33
	Nitrogen Oxides	7.48	1.87
EG-3 Building 415	Carbon Monoxide	1.61	0.40
Kohler 241.4 HP	Volatile Organic Compounds	0.60	0.15
(1999)	Sulfur Dioxide	0.49	0.12
	Particulate Matter-10	0.53	0.13
EG-4	Nitrogen Oxides	15.19	3.80
Building 440 Kohler	Carbon Monoxide	3.27	0.82
300ROEZD71 490 HP	Volatile Organic Compounds	1.21	0.30
(1995)	Sulfur Dioxide	1.00	0.25
	Particulate Matter-10	1.08	0.27
EG-5	Nitrogen Oxides	15.19	3.80
Building 440 Kohler 300ROEZD72 490 HP	Carbon Monoxide	3.27	0.82
	Volatile Organic Compounds	1.21	0.30
(1998)	Sulfur Dioxide	1.00	0.25
	Particulate Matter-10	1.08	0.27

EG-6 Building 449 Kohler 800REOZM 1207 HP (2004)	Nitrogen Oxides	28.97	7.24
	Carbon Monoxide	6.64	1.66
	Volatile Organic Compounds	0.85	0.21
	Sulfur Dioxide	0.49	0.12
	Particulate Matter-10	0.84	0.21
EG-7 Building 440 Kohler 500REOZVB- IC2C2 (Tier 2) 757 HP (2008)	Nitrogen Oxides	8.01	2.00
	Carbon Monoxide	4.34	1.08
	Volatile Organic Compounds	0.53	0.13
	Sulfur Dioxide	0.31	0.08
	Particulate Matter-10	0.25	0.06
EG-8 Building 8501 Stamford D5487/1 90 HP	Nitrogen Oxides	2.79	0.70
	Carbon Monoxide	0.60	0.15
	Volatile Organic Compounds	0.22	0.06
	Sulfur Dioxide	0.18	0.05
	Particulate Matter-10	0.20	0.05
EG-9 Building 449 MTU 1250RXC5DT2 Tier 2 1676.25 HP (2010)	Nitrogen Oxides	17.74	4.43
	Carbon Monoxide	9.61	2.40
	Volatile Organic Compounds	1.18	0.30
	Sulfur Dioxide	0.68	0.17
	Particulate Matter-10	0.55	0.14
EG-10 Building 385 Caterpillar D100-4 Tier 2 157.5 HP (2006)	Nitrogen Oxides	1.70	0.43
	Carbon Monoxide	1.28	0.32
	Volatile Organic Compounds	0.39	0.10
	Sulfur Dioxide	0.32	0.08
	Particulate Matter-10	0.55	0.02

Total Emissions From All Generators	Nitrogen Oxides	120.87	30.22
	Carbon Monoxide	35.68	8.92
	Volatile Organic Compounds	8.08	2.02
	Sulfur Dioxide	6.04	1.51
	Particulate Matter-10	6.77	1.69

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a General Permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

ATTACHMENT 4 G60-C